

Year	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

1. An interoperable receiver comprising:  
first means for receiving signals in a first band;  
second means for downconverting said received signals in the first band;  
third means for receiving signals in a second band;  
fourth means for downconverting signals in the second band; and  
fifth means for selectively outputting signals from the first band or the second band.
2. The invention of Claim 1 wherein said first band includes multiple carriers.
3. The invention of Claim 1 wherein said second band includes multiple carriers.
4. The invention of Claim 1 wherein the first band is the XM band.
5. The invention of Claim 1 wherein the second band is the CD band.
6. The invention of Claim 1 wherein the first and the third means is a radio frequency antenna.
7. The invention of Claim 6 wherein the output of the antenna is input to a filter.
8. The invention of Claim 7 wherein the filter is an image filter.

9. The invention of Claim 7 wherein the filter is a selectivity filter.

10. The invention of Claim 6 wherein the second means and the fourth means is a mixer.

11. The invention of Claim 10 wherein the mixer is driven by a voltage controlled oscillator.

12. The invention of Claim 11 wherein the voltage controlled oscillator is driven by a synthesizer.

13. The invention of Claim 12 wherein the fifth means includes a controller.

14. The invention of Claim 13 wherein the synthesizer is controlled by the controller to cause said receiver to selectively output signals received in the XM band or the CD band.

15. The invention of Claim 13 further including means for digitizing the output of the mixer.

16. The invention of Claim 15 further including means for simultaneously receiving first and second ensembles, said first ensemble including a first signal from a first source, a first signal from a second source and a first signal from a third source and said second ensemble including a second signal from said first source, a second signal from said second source and a second signal from said third source.

17. The invention of Claim 16 further including means for selectively outputting signals transmitted within said first and said second ensembles.

18. The invention of Claim 15 further including means for outputting an audio signal along with a data signal.

19. The invention of Claim 1 further including means for outputting an audio signal along with a data signal.

20. An interoperable receiver comprising:

first means for receiving signals in an XM band;

second means for downconverting said received signals in the XM band;

third means for receiving signals in a CD band;

5 fourth means for downconverting signals in the CD band; and

control means for selectively outputting signals from the XM band or the CD band.

21. The invention of Claim 20 further including means for simultaneously receiving first and second ensembles, said first ensemble including a first signal from a first source, a first signal from a second source and a first signal from a third source and said second ensemble including a second signal from said first source, a second signal  
5 from said second source and a second signal from said third source.

22. The invention of Claim 21 further including means for selectively outputting signals transmitted within said first and said second ensembles.

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24. The invention of Claim 20 further including means for outputting an audio signal along with a data signal.

~~radio receiver  
receiving an  
or receiving  
selectively~~

first means for receiving an audio datastream;

second means for receiving a data datastream; and

third means for selectively outputting said audio and said data bitstreams.